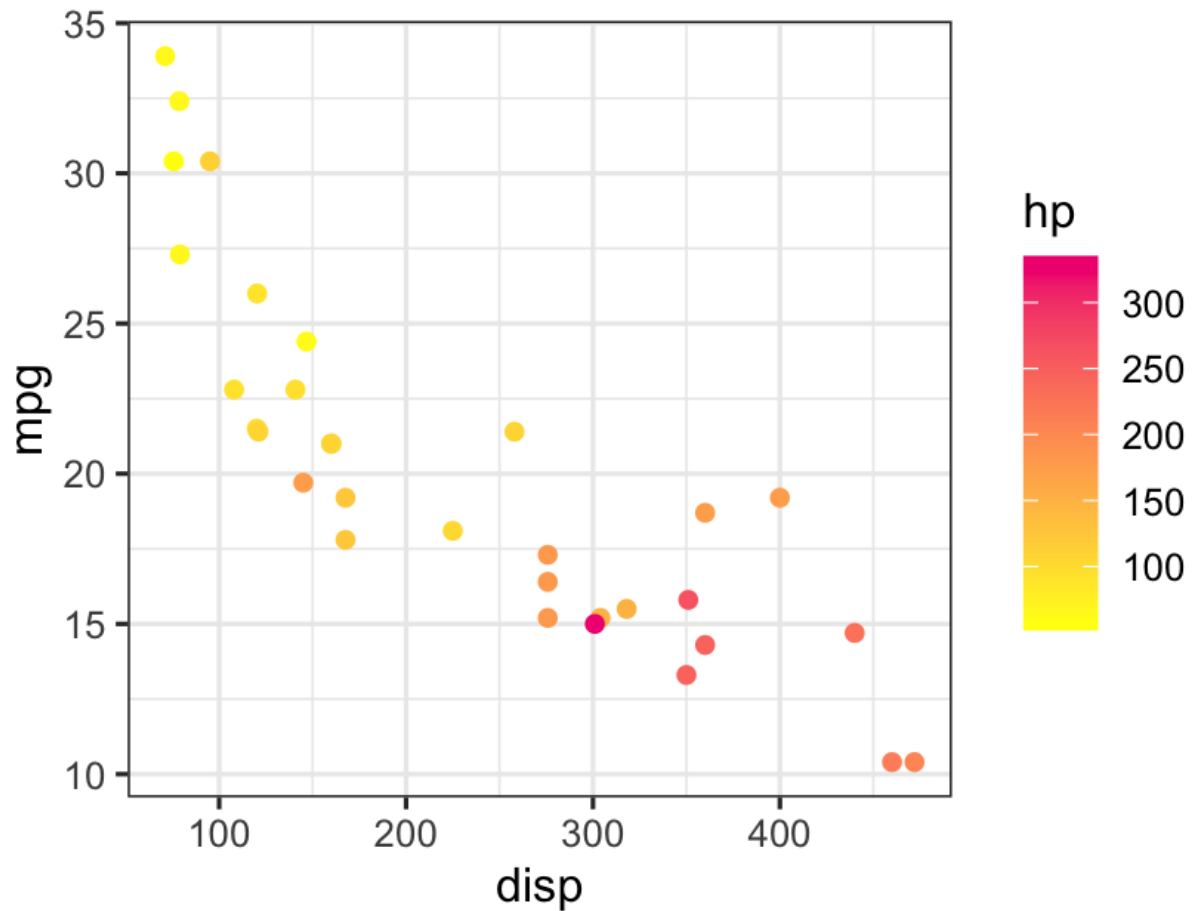


# Special Colors

## Color Gradient (low and high)

```
ggplot(data = mtcars,  
  
mapping = aes( x = disp,  
               y= mpg,  
               color=hp)) +  
  geom_point() +  
  scale_colour_gradient(low="#FFFF00", high="#800080")
```

\*We are using a color gradient to signify low and high values



## Discrete Legend

```
ggplot(data = mtcars,  
       mapping = aes(x = disp, y = mpg,  
                     color =  
                       as.factor(cyl))) +  
  geom_point() +  
  xlab("Displacement (m)") + ylab("Fuel efficiency (mpg)") +  
  guides(color = guide_legend(title="Cylinders")) # discrete
```